IAP15 Rec'd PCT/PTO 18 SEP 2006

PTO-1390 (Rev. 02-2005) Approved for use through 3/31/2007. OMB 0651-0021

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|         |  | RANSMITTAL LETTE<br>DESIGNATED/ELEC<br>NCERNING A SUBM   | CTED       | ATTORNEY'S DOCKET NUMBER 76774/CCD/RSM U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/574, 459 |   |  |  |  |  |  |  |
|---------|--|--|------------|--|---|--|--|--|--|--|--|
|         |  | ATIONAL APPLICATION NO.<br>A2004/001782  |            | INTERNATIONAL FILING DATE<br>01 October 2004   | PRIORITY DATE CLAIMED 03 October 2003   |  |  |  |  |  |  |
|         |  | THE INVENTION<br>CASTING OF NON-FER  | ROUS       | AND LIGHT METAL AND APP  | ARATUS THEREFOR   |  |  |  |  |  |  |
| APPLI   | APPLICANT(S) FOR DO/EO/US Willard Mark Truman GALLERNEAULT, Kevin Michael GATENBY,<br>Iljoon JIN and Ronald Roger DESROSIERS |  |            |  |   |  |  |  |  |  |  |
| Applica | ant  | herewith submits to the Unite  | ed State   | s Designated/Elected Office (DO/EO/US  | s) the following items and other information:                                   |  |  |  |  |  |  |
| 1.      |  | This is a <b>FIRST</b> submission  | of items   | concerning a submission under 35 U.S.  | C. 371.   |  |  |  |  |  |  |
| 2.      | $\boxtimes$  | This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.  |            |  |   |  |  |  |  |  |  |
| 3.      | ]  | This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below. |            |  |   |  |  |  |  |  |  |
| 4.      | _  | The US has been elected (Article 31).  |            |  |   |  |  |  |  |  |  |
| 5.      |  | A copy of the International Application as filed (35 U.S.C. 371 (c)(2))  |            |  |   |  |  |  |  |  |  |
|         |  | a. is attached hereto (required only if not communicated by the International Bureau).   |            |  |   |  |  |  |  |  |  |
|         |  | b.  has been communicated by the International Bureau.   |            |  |   |  |  |  |  |  |  |
| _       |  | c.  is not required, as the application was filed in the United States Receiving Office (RO/US).   |            |  |   |  |  |  |  |  |  |
| 6.      |  | An English language translat   | ion of th  | he International Application as filed (35 U  | J.S.C. 371 (c)(2)).   |  |  |  |  |  |  |
|         |  | a. is attached hereto.   |            |  |   |  |  |  |  |  |  |
| _       | _  | b.  has been previous  | ly subm    | nitted under 35 U.S.C. 154(d)(4).  |   |  |  |  |  |  |  |
| 7.      |  | Amendments to the claims o   | f the Int  | ternational Application under PCT Article  | 19 (35 U.S.C. 371(c)(3))  |  |  |  |  |  |  |
|         |  | a. are attached heret  | o (requi   | ired only if not communicated by the Inte  | mational Bureau).   |  |  |  |  |  |  |
|         |  | b. have been commu   | inicated   | by the International Bureau.   |   |  |  |  |  |  |  |
|         |  | c. have not been made  | de; how    | ever, the time limit for making such ame   | ndments has NOT expired.  |  |  |  |  |  |  |
|         |  | d. have not been made  | de and v   | will not be made.  |   |  |  |  |  |  |  |
| 8.      |  | An English language translat   | tion of th | he amendments to the claims under PCT  | ^ Article 19 (35 U.S.C. 371 (c)(3)).  |  |  |  |  |  |  |
| 9.      | $\boxtimes$  | An oath or declaration of the  |            | ,  |   |  |  |  |  |  |  |
| 10. L   | ١  | An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).                     |            |  |   |  |  |  |  |  |  |
| Items   | 11   | to 20 below concern docum  | nent(s)    | or information included:   |   |  |  |  |  |  |  |
| 11.     | $\boxtimes$  | An Information Disclosure St   | :atemen    | t under 37 CFR 1.97 and 1.98.  |   |  |  |  |  |  |  |
| 12.     |  | An assignment document for   | : recordi  | ng. A separate cover sheet in compliance   | ce with 37 CFR 3.28 and 3.31 is included.                                       |  |  |  |  |  |  |
| 13.     |  | A preliminary amendment.   |            |  |   |  |  |  |  |  |  |
| 14.     | $\exists$  | An Application Data Sheet under 37 CFR 1.76.   |            |  |   |  |  |  |  |  |  |
| 15.     | $\exists$  | A substitute specification.  |            |  |   |  |  |  |  |  |  |
| 16.     | ⅓  | A power of attorney and/or change of address letter.   |            |  |   |  |  |  |  |  |  |
| 17.     |  | A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.   |            |  |   |  |  |  |  |  |  |
| 18.     |  | A second copy of the published International Application under 35 U.S.C. 154(d)(4).  |            |  |   |  |  |  |  |  |  |
| 19.     |  | A second copy of the English   | ı langua   | age translation of the international applica   | ation under 35 U.S.C. 154(d)(4).  |  |  |  |  |  |  |
| 20.     | ⅓  |  | Assign     |  | rney, Appointment Of New Attorneys By<br>ce Address including Statement<br>ment |  |  |  |  |  |  |
|         |  |  |            |  |   |  |  |  |  |  |  |

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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| U.S. APPLICATION                           | ^  | ATTORNEY'S DOCKET NUMBER 76774/CCD/RSM |   |               |                         |          |                      |                  |  |  |  |
|--|--|--|---|---------------|-------------------------|----------|----------------------|------------------|--|--|--|
|  | 10/574,459 ing fees have been  | submitted                              | PCT/CA200   | 1,0           | 01702                   | CA       | LCULATIONS           |                  |  |  |  |
| 21. Basic nat                              | tional fee   |  |   |               | \$300                   | ON<br>\$ | 0.00                 |                  |  |  |  |
|  |  |  |   | • • • • • • • |                         | , »      | 0.00                 |                  |  |  |  |
|  | tion fee<br>minary examination<br>-(4)   | \$                                     | 0.00  |               |                         |          |                      |                  |  |  |  |
| ——————————————————————————————————————     |  |  |   | ••••          | \$200                   |          |                      |                  |  |  |  |
| 23. Search fe                              |  | oon ooid on the                        | LICOTO es es  |               |                         |          |                      |                  |  |  |  |
| International International                | R 1.445(a)(2)) has b<br>al Searching Authori<br>h Report prepared a  |  | 0.00  |               |                         |          |                      |                  |  |  |  |
|  | TOTAL OF 21, 22, /   | \$<br>S                                | 0.00  |               |                         |          |                      |                  |  |  |  |
| Additional fed sequence list               | e for specification arting or computer pro   | cluding                                |   |               |                         |          |                      |                  |  |  |  |
| Total Sheets                               | Extra Sheets   | Number of ea                           | ach additional 50 or fraction dup to a whole number)  |               | RATE                    |          |                      |                  |  |  |  |
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|  | 00 for furnishing the  | \$                                     | 130.00  |               |                         |          |                      |                  |  |  |  |
| CLAIMS                                     |  | R FILED                                | NUMBER EXTRA  |               | RATE                    |          | <del> </del>         | I                |  |  |  |
| Total claims                               |  | 24 - 20 =                              | 4   | ,             | × \$50                  | \$       | 0.00                 |                  |  |  |  |
| Independent clai                           | ms   | 3 -3=                                  | 0   | ,             | × \$200                 | \$       | 0.00                 |                  |  |  |  |
| MULTIPLE DEPEN                             | MULTIPLE DEPENDNENT CLAIM(S) (if applicable) + \$360   |  |   |               |                         |          |                      |                  |  |  |  |
|  |  |  | TOTAL OF ABOV   | E C           | ALCULATIONS =           | \$       | 0.00                 |                  |  |  |  |
| Applicant clair                            | ns small entity statu  |  |   | I             |                         |          |                      |                  |  |  |  |
|  |  | \$                                     | 0.00  |               |                         |          |                      |                  |  |  |  |
|  | 130.00 for furnishin<br>e (37 CFR 1.492(i))  |  | anslation later than 30 mo                            | nths          | from the earliest<br>+  | \$       | 0.00                 |                  |  |  |  |
|  |  |  |   |               | IATIONAL FEE =          | \$       | 0.00                 |                  |  |  |  |
| Fee for recording the by an appropriate of | ne enclosed assignmover sheet (37 CFR  | nent (37 CFR 1.<br>3.28, 3.31). \$4    | 21 (h)). The assignment n                             | nust i        | be accompanied<br>+     | \$       | 0.00                 |                  |  |  |  |
| 10   |  |  | TOTAL   | . FEI         | ES ENCLOSED =           | \$       | 0.00                 |                  |  |  |  |
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| FC:1617 130                                | 0.00 DA  |  |   |               |                         |          | ount to be<br>arged: | \$130.00         |  |  |  |
| a. A check in t                            | he amount of \$  | to cover the                           | above fees is enclosed.                               |               |                         |          | · · · · ·            |                  |  |  |  |
|  | rge my Deposit Acco  |  | -3125 in the  | amou          | unt of \$ <u>130.00</u> | tc       | cover the above      | e fees.          |  |  |  |
|  |  |  | rge any additional fees whof this sheet is enclosed.  | ich n         | nay be required, or     | cred     | it any overpayme     | ents to Deposit  |  |  |  |
|  |  |  | IING: Information on this f information and authoriza |               |                         | . Cre    | dit card informa     | ation should not |  |  |  |
|  | TE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive of and granted to restore the International Application to pending status. |  |   |               |                         |          |                      | (b)) must be     |  |  |  |
| SEND ALL CORRE                             | SPONDENCE TO:  | Ause                                   |   |               |                         |          |                      |                  |  |  |  |
| Christopher                                | DATE: 18 September 2006 SIGNATURE  |  |   |               |                         |          |                      |                  |  |  |  |
|  | poper & Dunham LLP Richard S. Mil  |  |   |               |                         |          |                      |                  |  |  |  |
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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Willard Mark Truman GALLERNEAULT, Kevin

Michael GATENBY, Iljoon JIN and Ronald Roger

DESROSIERS

International

Application No.:

PCT/CA2004/001782

International

Filing Date

01 October 2004

U.S. Serial No.:

10/574,459

U.S. Filing

Date

31 March 2006

For

BELT CASTING OF NON-FERROUS AND LIGHT METALS

AND APPARATUS THEREFOR

1185 Avenue of the Americas New York, New York 10036

18 September 2006

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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| Date of  | Deposit: | :18     | Septe | ember 2 | 006   |     |     |     |    |  |

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inted Name: John Fernandez

Respectfully submitted,

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